ST0224-10-401-A

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Datasheet

2.4-2.5GHz & 5.15-5.85GHz

Internal Antenna



FPC Antenna

Features:

Adhesive backing on the FPC simplifies mounting within the device Global frequency coverage FPC antenna assembly

Applications:

Smart metering and utilities Industrial IoT Quick service restaurants Medical devices



Electrical Specifications Antenna Characteristics **Radiation Pattern Polarization** Max. Input Power Antenna Type **Impedance** 1W **FPC Antenna** Omni Linear 50Ω 2.4~2.5 5.15~5.825 Frequency (GHz) Return Loss (dB) < -10 < -10 Peak Gain (dBi) 2.1 3.1 -1.2 Average Gain (dB) -1.5 Efficiency (%) 77 71

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Environmental					
Temperature Range (°C)	-40 to 85				
Humidity	Non-condensing 65°C 95% RH				
RoHS Compliant					

Part Number	Dim. (mm)	Weight (g)	Conn. Type	Cable Type	Material	Adhesive
ST0224-10-401-A	30 × 10 × 0.2	0.67	I-PEX MHF 1	Ø 1.37	PI	3M 467

Mechanical Drawing

Cable length options available

Unit: mm

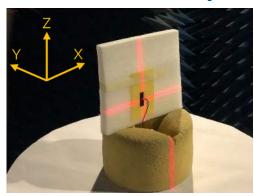
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Wi-Fi

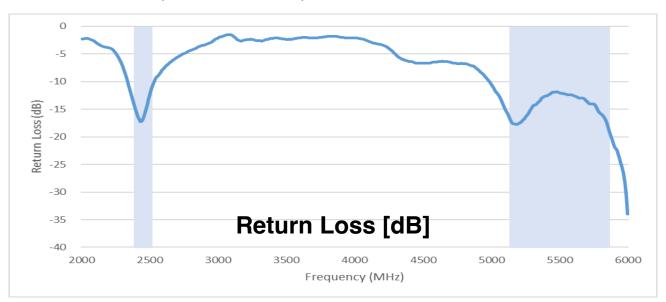
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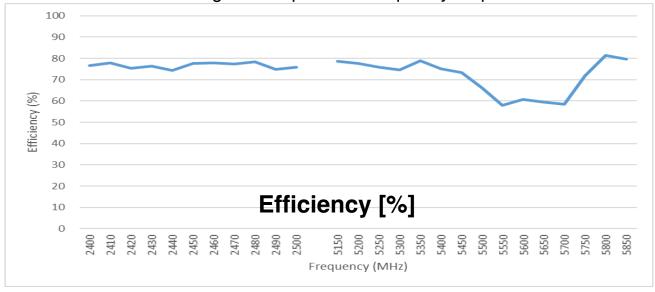
Charts In Free Space



Test setup, measurement performed in 3D anechoic chamber.



Blue background represents frequency response.

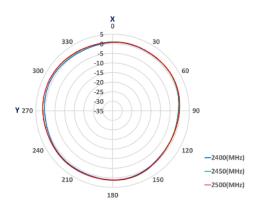


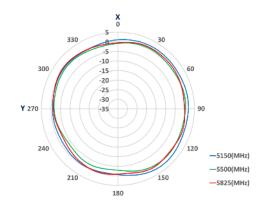
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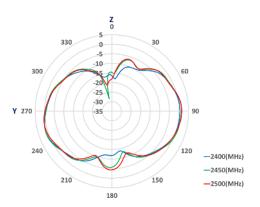
Radiation Pattern - Free Space

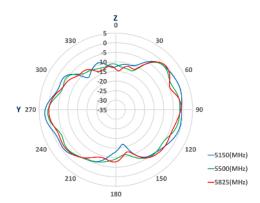
XY - Plane



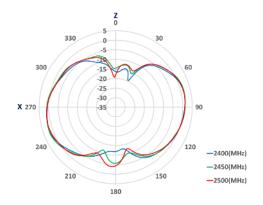


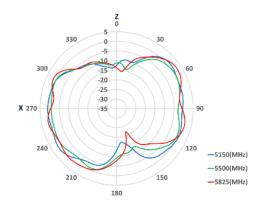
YZ - Plane





XZ - Plane





Wi-Fi

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Revisions								
Rev	Description	Date	ECN	Approval				
Α	Initial Release	2022-10-25	ST0224-10-401-A-RA00	ATC				
В	Additional info added. RF Performance update.	2023-01-02	ST0224-10-401-A-RB00	ATC				

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